

Form PTO-1449
(REV. 8-83)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

042390.P7331

SERIAL NO.

09/410,800

INFORMATION DISCLOSURE CITATION

APPLICANT

ACHARYA, et al.

FILING DATE

10/01/99

GROUP

2712

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
nt	5,875,122	02/23/99	Acharya			
nt	5,995,210	11/30/99	Acharya			
nt	6,009,201	12/28/99	Acharya			
nt	6,009,206	12/28/99	Acharya			
nt	6,047,303	4/4/2000	Acharya			
nt	08/130,243	8/6/98	Acharya			
nt	08/963,335	11/3/97	Goldstein et al.			
nt	08/885,415	6/30/97	Acharya			
nt	09/008,131	1/16/98	Acharya et al.			
nt	09/018,601	2/4/98	Acharya			
nt	09/034,625	3/4/98	Acharya			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

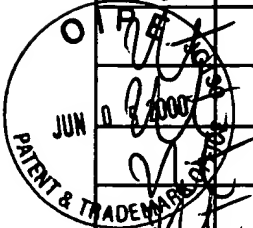
nt	H. H. Nguyen, P. Cohen, "Gibbs Random Fields, Fuzzy Clustering, and the Unsupervised Segmentation of Textured Images," Graphical Models and Image Processing, Vol 55, No. 1, pps. 1-19, January 1993.
nt	C. Jawahar, A. Ray, "Techniques and Applications of Fuzzy Statistics in Digital Image Analysis," Fuzzy Theory Systems: Techniques and Applications, Vol. 2, pps. 759-778, 1999.
nt	S. K. Pal, A. Ghosh, "Image Segmentation Using Fuzzy Correlation," Information Sciences No. 62, pps. 223-250, 1992.

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nt	09/163,022	09/29/98	Acharya et al.			
	08/978,786	11/26/97	Acharya et al.			
	09/482,551	01/13/00	Acharya et al.			
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	08/986,761	12/8/97	Acharya et al.			
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nt	08/963,334	11/3/97	Acharya			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

nt	S. K. Pal, N. R. Pal, "Segmentation Based on Measures of Contrast, Homogeneity, and Region Size," IEEE, Vol. SMC-17, No. 5, pps. 857-868, September/October 1987.
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nt	H.J. Zimmermann, "Fuzzy Set Theory and Its Applications (Second, Revised Edition)," Allied Publishers Limited, pps. 34-35, 46-49

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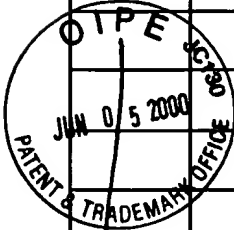
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nt	08/986,461	12/08/97	Acharya et al.			
	09/258,636	02/26/99	Acharya et al.			
	09/048,901	03/26/98	Acharya			
	09/040,806	3/18/98	Acharya			
	09/301,753	4/29/99	Acharya et al.			
	09/083,383	5/21/98	Acharya et al.			
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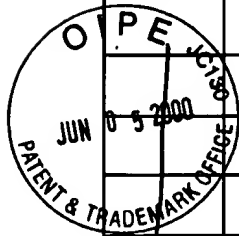
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*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	09/126,203	07/30/98	Bawolek et al.			
	09/258,118	02/24/99	Vavro et al.			
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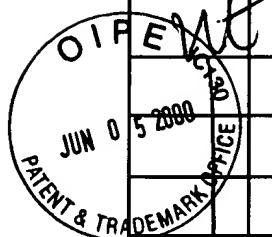
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FOREIGN PATENT DOCUMENTS

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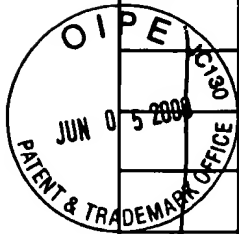
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Electronic Information Disclosure Statement

METHOD OF INTERPOLATING COLOR PIXEL SIGNALS FROM A SUBSAMPLED COLOR IMAGE

Application: 
09/410800

Confirmation: 7498

Applicant(s): Tinku Acharya

Docket Number: 42390P7331

Group Art Unit: unknown

Examiner: Unknown

search string: (5,014,134 or 5,321,776 or 5,392,255 or 5,398,066 or 5,491,561 or 5,541,653 or 5,602,589 or 5,706,220 or 5,737,448 or 5,892,847 or 5,901,242 or 6,091,851 or 6,094,508 or 6,108,453 or 6,124,811 or 6,130,960 or 6,151,069 or 6,151,415 or 6,154,493 or 6,166,664 or 6,178,269 or 6,195,026 or 6,215,908 or 6,215,916 or 6,229,578 or 6,233,358 or 6,236,433 or 6,236,765 or 6,275,206 or 6,285,796 or 6,292,114 or 6,301,392 or 6,348,929 or 6,356,276 or 6,366,692 or 6,366,694 or 6,373,481 or 6,377,280 or 6,381,357 or 6,392,699).pn.




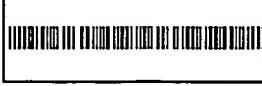
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Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Citation No.	Patent Number	Date	Bar Code	Patentee	Class	Subclass
	P01	5,014,134	1991-05-07		Lawton, et al.		
	P02	5,321,776	1994-06-14		Shapiro		

gnt	P03	5,392,255	1995-02-21		LeBras, et al.
	P04	5,398,066	1995-03-14		Martinez-Uriegas, et al.
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	P06	5,541,653	1996-07-30		Peters, et al.
	P07	5,602,589	1997-02-11		Vishwanath, et al.
	P08	5,706,220	1998-01-06		vafai, et al.
	P09	5,737,448	1998-04-07		Gardos
	P10	5,892,847	1999-04-06		Johnson
	P11	5,901,242	1999-05-04		Crane, et al.
	P12	6,091,851	2000-07-18		Tinku Acharya
	P13	6,094,508	2000-07-25		Tinku Acharya, et al.
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	P16	6,130,960	2000-10-10		Tinku Acharya
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	P18	6,151,415	2000-11-21		Tinku Acharya, et al.
	P19	6,154,493	2000-11-28		Tinku Acharya, et al.
	P20	6,166,664	2000-12-26		Tinku Acharya
gnt	P21	6,178,269	2001-01-23		Tinku Acharya

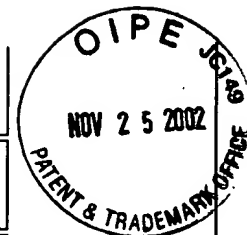


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P22	6,195,026	2001-02-27	Tinku Acharya
P23	6,215,908	2001-04-10	David Vavro, et al.
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P27	6,236,433	2001-05-22	Tinku Acharya, et al.
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P29	6,275,206	2001-08-14	Tinku Acharya, et al.
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P33	6,348,929	2002-02-19	Tinku Acharya, et al.
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P37	6,373,481	2002-04-16	Tinku Acharya, et al.
P38	6,377,280	2002-04-23	Tinku Acharya, et al.
P39	6,381,357	2002-04-30	Tinku Acharya, et al.
P40	6,392,699	2002-05-	Tinku Acharya



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Remarks

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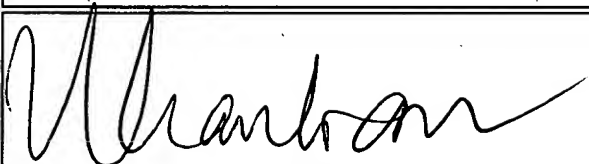
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known

Application Number	09/410,800
Filing Date	October 1, 1999
First Named Inventor	Tinku Acharya
Group Art Unit	Not Assigned
Examiner Name	Not Assigned
Attorney Docket Number	42390P7331

Sheet 1 of 3

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OTHER ART - NON PATENT LITERATURE DOCUMENTS

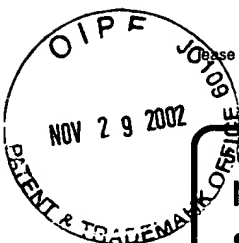
Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
mt	1	JOHNSON, "METHOD FOR TRANSFERRING AND DISPLAYING COMPRESSED IMAGES", Pub No: US 2001/0019630 A1, Pub Date: 09/06/01, 91 Pgs.	
	2	LI, ET AL., "A FUZZY LOGIC APPROACH TO IMAGE SEGMENTATION", Dept of Computer Science, Utah State University, Logan, UT., 1994 IEEE, Pgs. 337-340.	
	3	ACHARYA, ET AL., "A NEW BLOCK MATCHING BASED COLOR INTERPOLATION ALGORITHM", Intel Corp, Digital Imaging and Video Division, Chandler AZ, Pgs. 1-3.	
	4	ADAMS, JR., "INTERACTIONS BETWEEN COLOR PLANE INTERPOLATION AND OTHER IMAGE PROCESSING FUNCTIONS IN ELECTRONIC PHOTOGRAPHY", Eastman Kodak Co, Imaging Research and Advanced Development, Rochester NY, SPIE Vol. 2416, Pgs. 144-151.	
	5	"IMAGE PROCESSING AND MACHINE VISION", Chapter 4, Pgs.327-330.	
	6	ROSENFELD, "FUZZY DIGITAL TOPOLOGY", Computer Science Center, University of Maryland, January 1979, Vol. 40, No. 1, Academic Press, Inc., Pgs. 331-339.	
	7	ROSENFELD, "THE FUZZY GEOMETRY OF IMAGE SUBSETS", Center for Automation Research, University of Maryland, College Park, MD, Sept. 1984, Vol. 2, Pgs 340-346.	
	8	DYER, ET AL., "THINNING ALGORITHMS FOR GRAY-SCALE PICTURES", IEEE January 1979, Vol. PAMI-1 No. 1, Pgs., 347-348.	
	9	PAL, ET AL., "IMAGE ENHANCEMENT USING SMOOTHING WITH FUZZY SETS", IEEE July 1981, Vol. SMC-11, No. 7., Pgs. 349-356.	
	10	LI, ET AL., "FAST AND RELIABLE IMAGE ENHANCEMENT USING FUZZY RELAXATION TECHNIQUE", IEEE Sept/Oct 1989, Vol. SMC-19, No. 5, Pgs. 357-361.	
	11	TANKA, ET AL., Image & Info Research Institute, Dai Nippon Printing Co., Tokyo Japan, Vol. 5, No. 3, Copy right 1991 by Elsevier Science Publishing Company, Pgs. 362-368.	
	12	PAL, ET AL., IMAGE ENHANCEMENT AND THRESHOLDING BY OPTIMIZATION OF FUZZY COMPACTNESS", Center for Automation Research, University of Maryland, College Park MD, February 1988, Vol. 7, Pgs.369-378.	
mt	13	LIM, ET AL., "ON THE COLOR IMAGE SEGMENTATION ALGORITHM BASED ON THE THRESHOLDING AND THE FUZZY C-MEANS TECHNIQUES", Copy Right 1990, Pergamon Press Plc., Vol. 23, No 9, Pgs. 379-396.	

Examiner Signature	<i>W. Hanlon</i>	Date Considered	7/31/03
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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	09/410,800
				Filing Date	October 1, 1999
				First Named Inventor	Tinku Acharya
				Group Art Unit	Not Assigned
				Examiner Name	Not Assigned
				Attorney Docket Number	42390P7331
Sheet	2	of	3		

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IDS cite1 no other		OTHER ART - NON PATENT LITERATURE DOCUMENTS	
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nt	14	HUNTSBERGER, ET AL., "REPRESENTATION OF UNCERTAINTY IN COMPUTER VISION USING FUZZY SETS", IEEE February 1986, Vol. C-35, No. 2, Pgs. 397-407.	
	15	ACHARYA, "A MEMORY BASED VLSI ARCHITECTURE FOR IMAGE COMPRESSION", Application No. 08/885,415, Filing date 6/30/97, Attorney Docket No. 042390.P4425, 37 Pgs.	
	16	BAWOLEK, ET AL., "INFRARED CORRECTION SYSTEM", Application No. 09/126,203, Filing date 7/30/98, Docket No. 042390.P6172, 23 Pgs.	
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Complete if Known

Application Number	09/410,800
Filing Date	October 1, 1999
First Named Inventor	Tinku Acharya
Art Unit	Not Assigned
Examiner Name	Not Assigned
Attorney Docket Number	42390P7331

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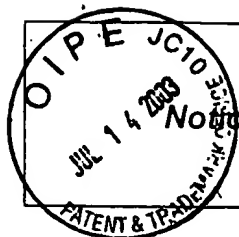
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Examiner Ali Bayat	Art Unit 2625	Page 1 of 1

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